

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002790.D
 Acq On : 21 Jun 2018 16:03
 Operator : JC/MD
 Sample : J3570-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 01:10:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	236925	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	333489	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	313201	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	175992	50.00	ug/l	0.00

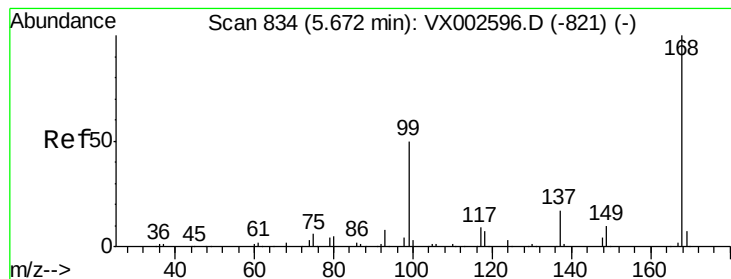
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	161212	44.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.56%	
35) Dibromofluoromethane	5.51	113	70668	26.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	53.10%	
50) Toluene-d8	8.72	98	481364	47.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.26%	
62) 4-Bromofluorobenzene	11.14	95	165406	43.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.38%	

Target Compounds

						Qvalue
5) Bromomethane	1.65	94	376	0.20	ug/l	85
10) Methyl Iodide	2.52	142	932	5.40	ug/l #	83
13) Acrolein	2.31	56	860	9.26	ug/l #	67
16) Acetone	2.45	43	50253	31.64	ug/l	99
17) Carbon Disulfide	2.57	76	2090	0.33	ug/l #	90
18) Methyl Acetate	2.78	43	3092	0.73	ug/l	93
20) Methylene Chloride	2.86	84	4886	1.50	ug/l	98
25) 2-Butanone	4.71	43	10694	5.13	ug/l	94
29) Tetrahydrofuran	5.18	42	684	0.50	ug/l #	90
31) Cyclohexane	5.66	56	4850	1.14	ug/l #	35
36) 1,1-Dichloropropene	5.67	75	16538	4.67	ug/l #	50
37) Ethyl Acetate	4.71	43	10694	2.67	ug/l #	70
38) Carbon Tetrachloride	5.67	117	21397	6.07	ug/l #	16
51) 4-Methyl-2-Pentanone	8.66	43	2484	0.58	ug/l	91
53) t-1,3-Dichloropropene	8.45	75	26	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.06	75	26	3.22	ug/l #	32
59) 2-Hexanone	9.50	43	1262	0.39	ug/l	86
60) Dibromochloromethane	9.68	129	19	3.77	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	89404	26.92	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	89404	83.12	ug/l #	7
90) Hexachloroethane	12.58	117	22	2.64	ug/l #	1

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

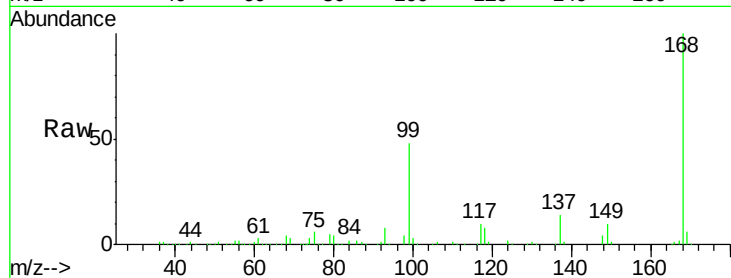
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 236925

Ion Ratio Lower Upper

168 100

99 48.4 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

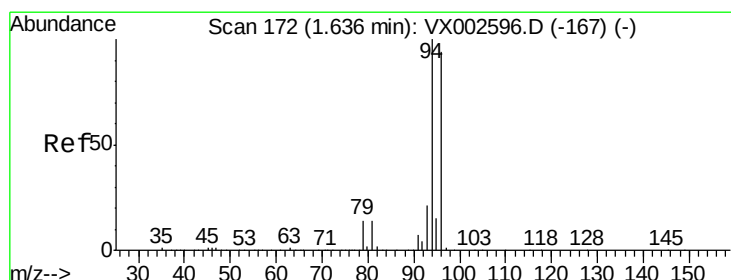
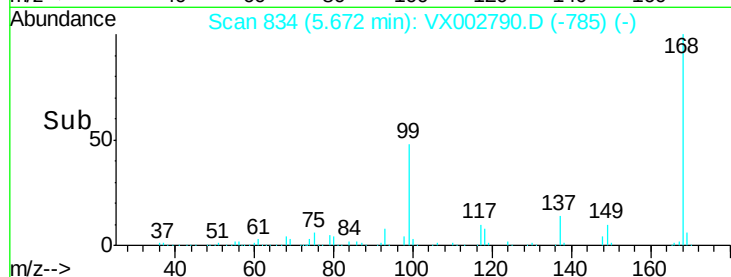
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: 0.20 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002790.D

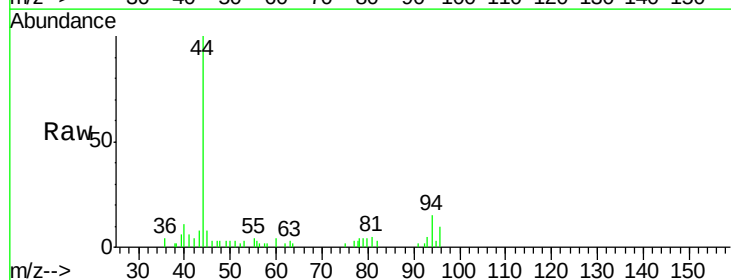
Acq: 21 Jun 2018 16:03

Tgt Ion: 94 Resp: 376

Ion Ratio Lower Upper

94 100

96 79.2 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

300

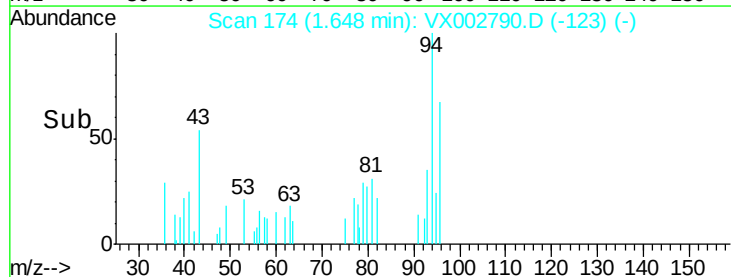
200

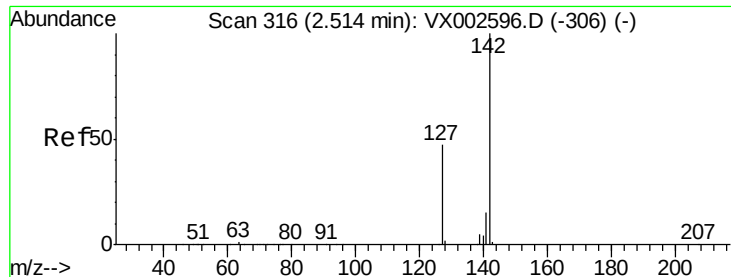
100

0

Time-->

1.62 1.64 1.66

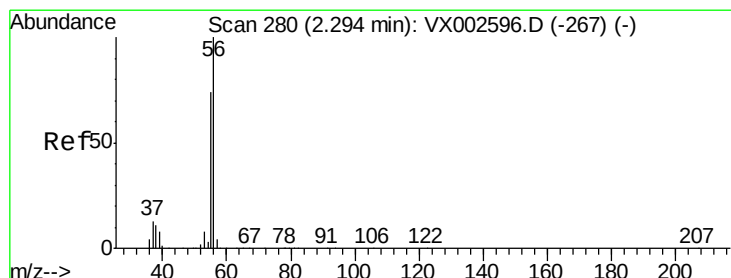
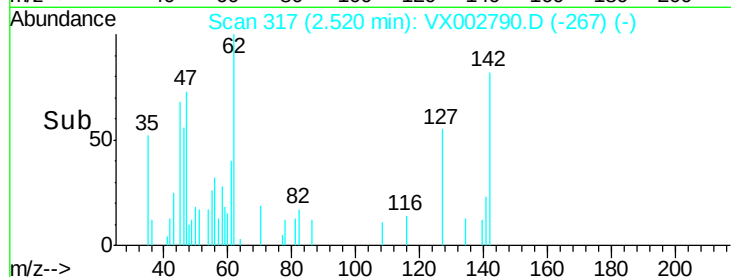
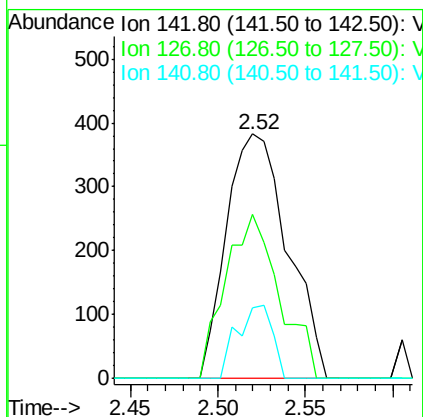
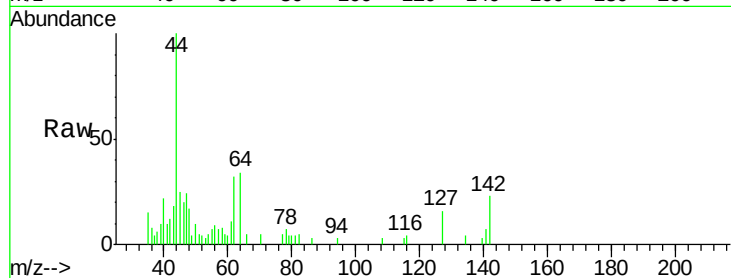




#10
Methvl Iodide
Concen: 5.40 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

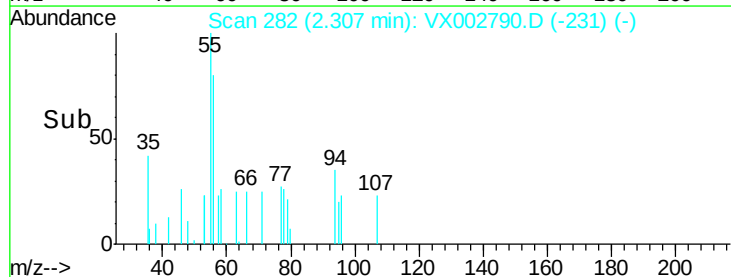
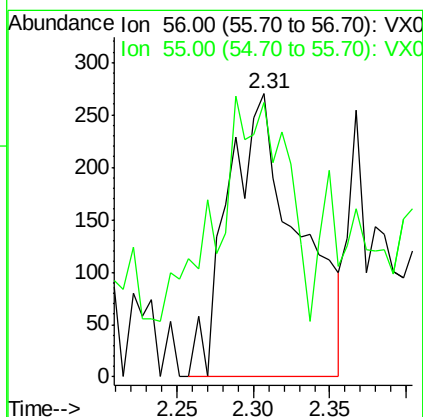
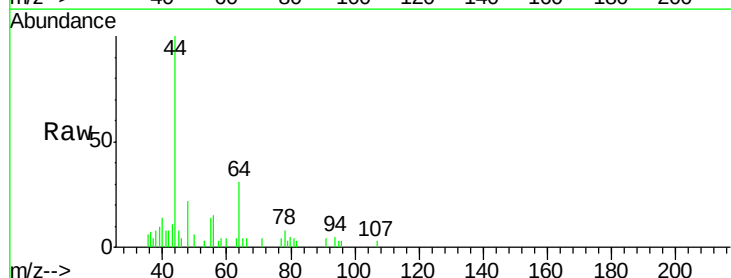
Instrument :
MSVOA_X
ClientSampled :

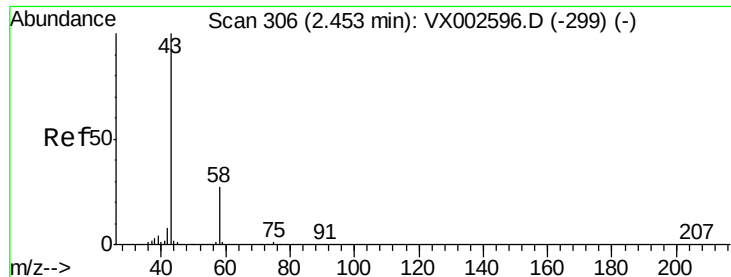
Tot Ion:142 Resp: 932
Ion Ratio Lower Upper
142 100
127 58.8 36.6 55.0#
141 17.0 11.3 16.9#



#13
Acrolein
Concen: 9.26 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

Tgt Ion: 56 Resp: 860
Ion Ratio Lower Upper
56 100
55 43.7 57.0 85.4#





#16

Acetone

Concen: 31.64 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_X

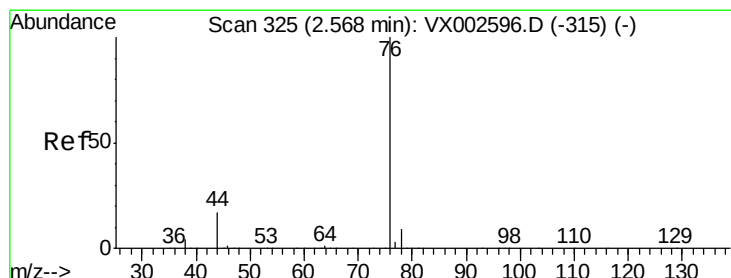
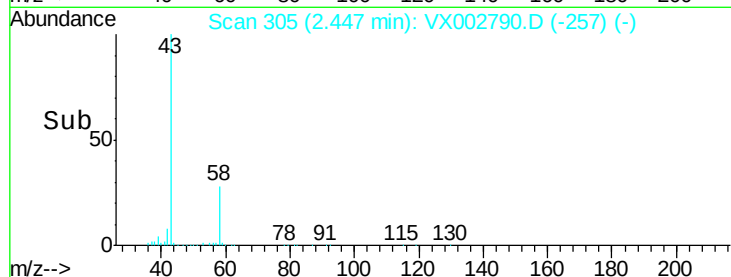
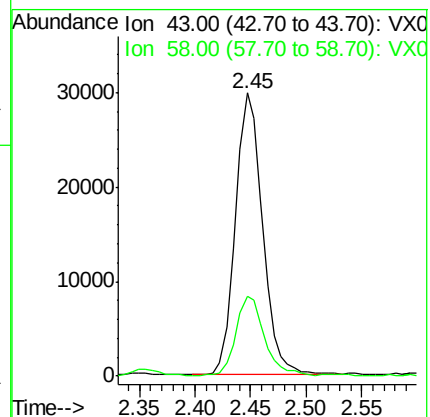
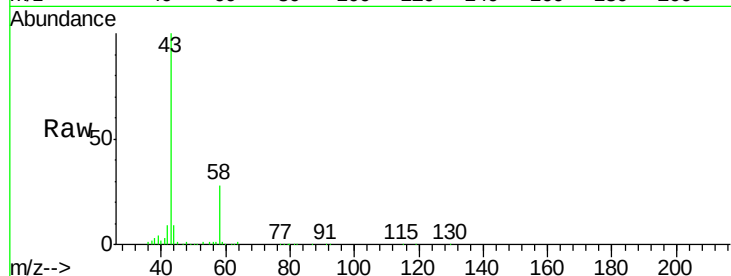
ClientSampleId :

Tot Ion: 43 Resp: 50253

Ion Ratio Lower Upper

43 100

58 28.1 22.1 33.1



#17

Carbon Disulfide

Concen: 0.33 ug/l

RT: 2.57 min Scan# 325

Delta R.T. 0.00 min

Lab File: VX002790.D

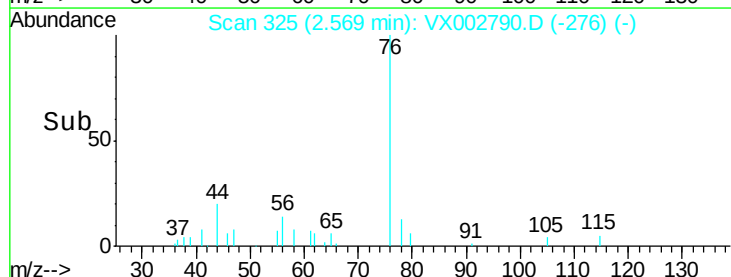
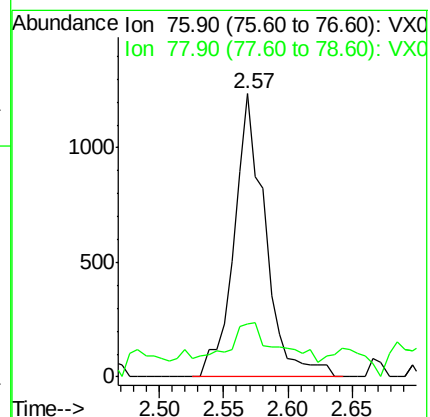
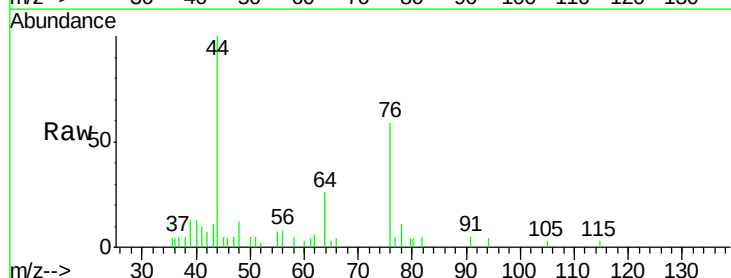
Acq: 21 Jun 2018 16:03

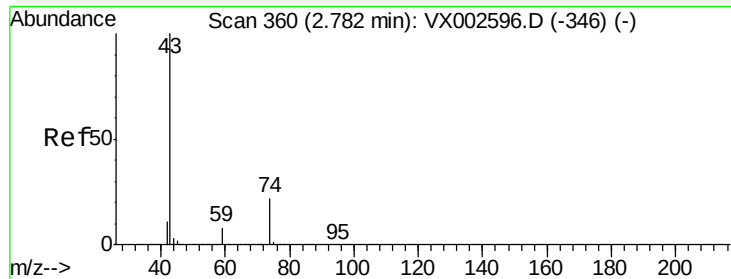
Tgt Ion: 76 Resp: 2090

Ion Ratio Lower Upper

76 100

78 12.3 6.9 10.3#

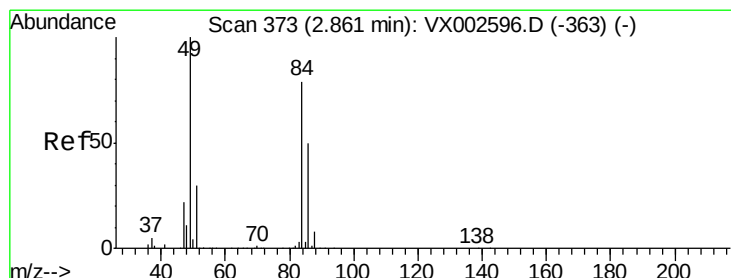
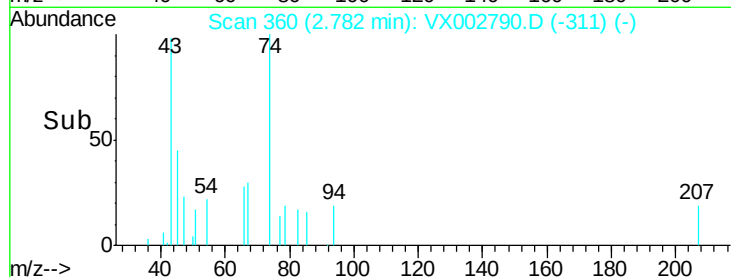
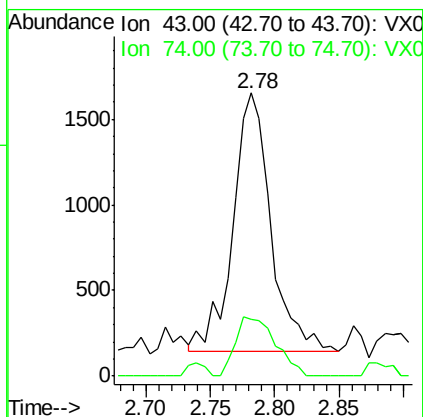
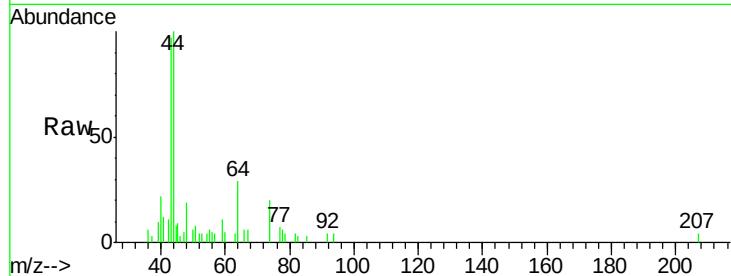




#18
Methyl Acetate
Concen: 0.73 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

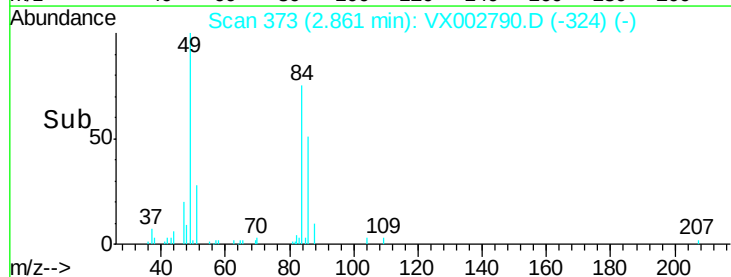
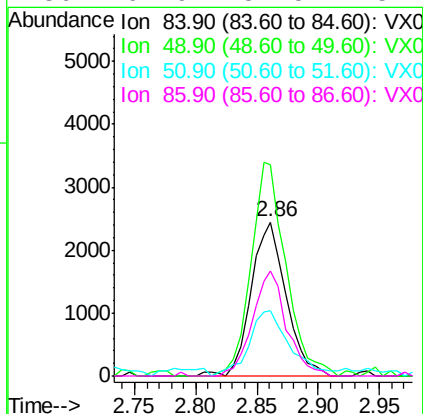
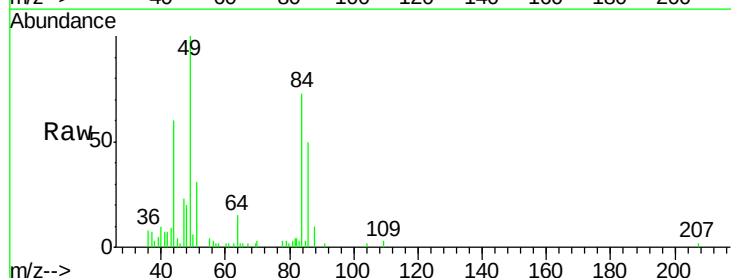
Instrument :
MSVOA_X
ClientSampleId :

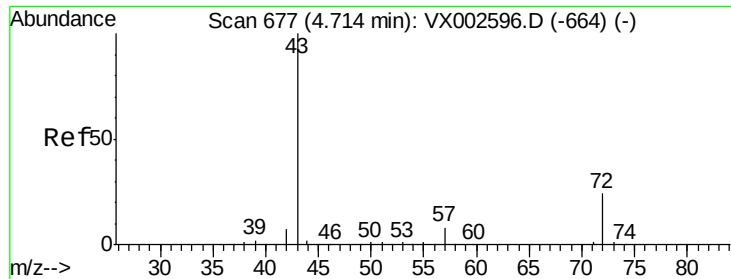
Tot Ion: 43 Resp: 3092
Ion Ratio Lower Upper
43 100
74 24.0 16.7 25.1



#20
Methylene Chloride
Concen: 1.50 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

Tgt Ion: 84 Resp: 4886
Ion Ratio Lower Upper
84 100
49 136.8 107.8 161.6
51 39.2 32.8 49.2
86 67.9 52.5 78.7





#25

2-Butanone

Concen: 5.13 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_X

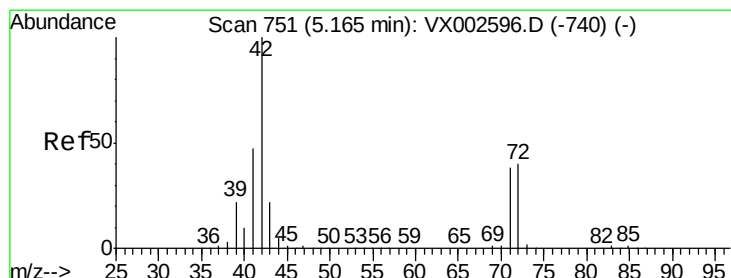
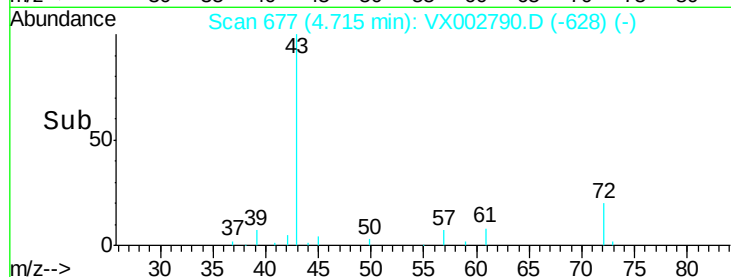
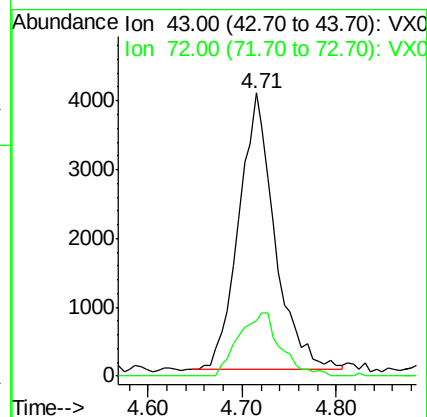
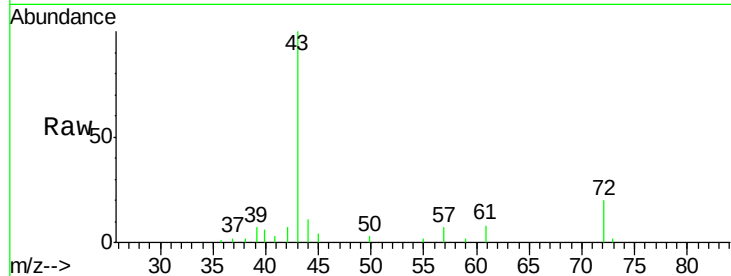
ClientSampled :

Tot Ion: 43 Resp: 10694

Ion Ratio Lower Upper

43 100

72 20.1 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.50 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

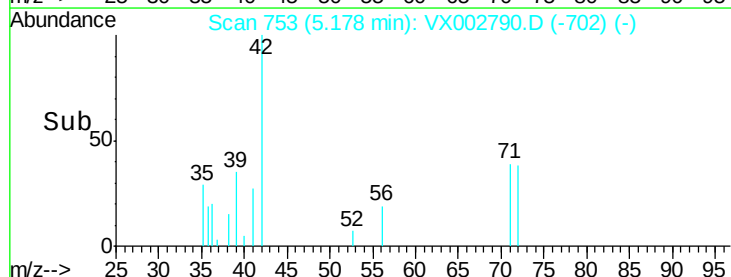
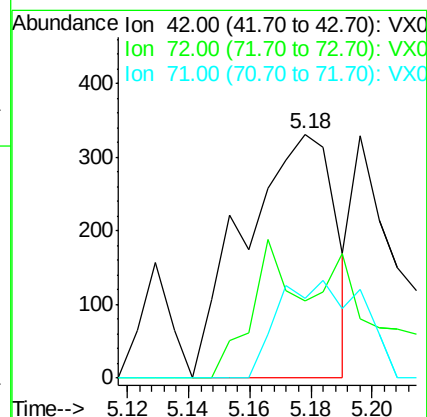
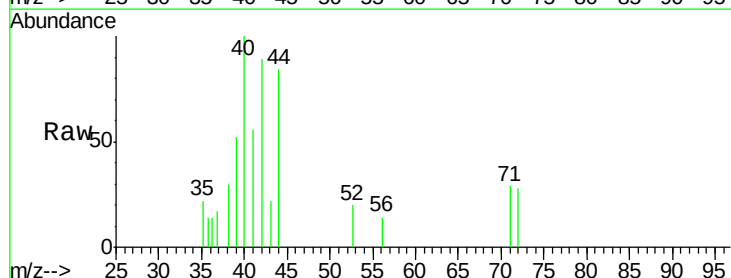
Tgt Ion: 42 Resp: 684

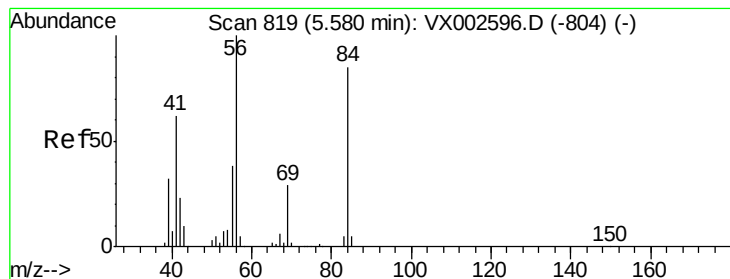
Ion Ratio Lower Upper

42 100

72 27.9 32.0 48.0#

71 37.6 30.1 45.1





#31

Cyclohexane

Concen: 1.14 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_X

ClientSampleId :

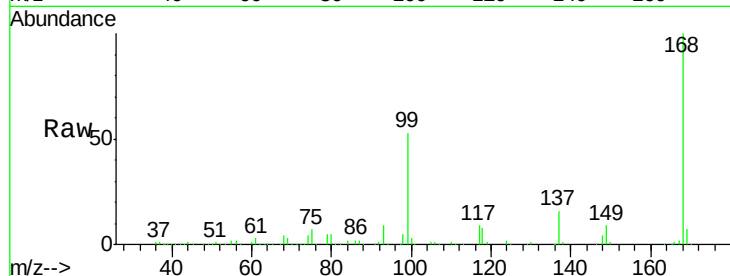
Tot Ion: 56 Resp: 4850

Ion Ratio Lower Upper

56 100

69 122.1 23.7 35.5#

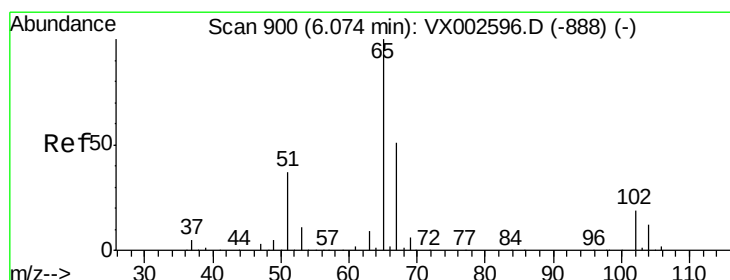
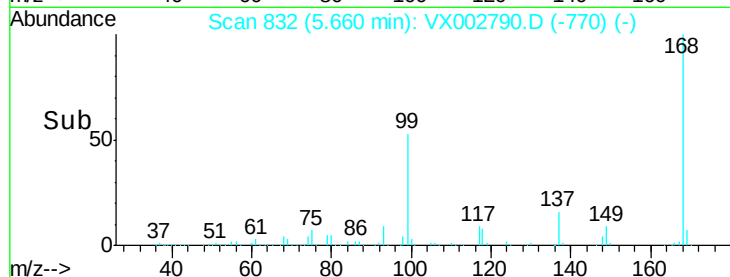
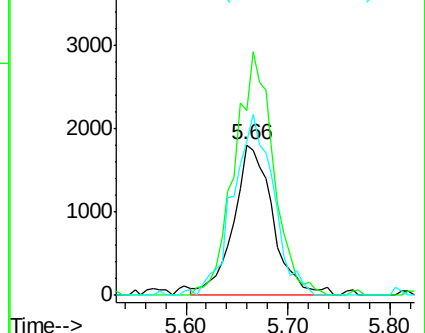
84 102.1 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 44.78 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002790.D

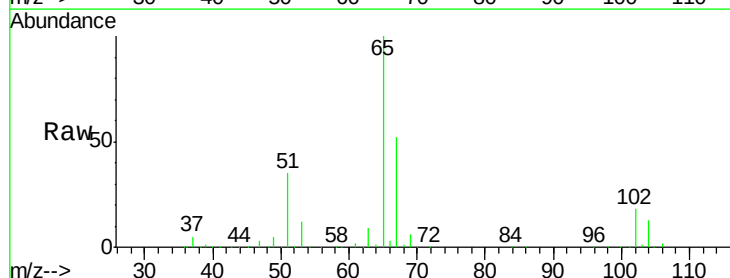
Acq: 21 Jun 2018 16:03

Tgt Ion: 65 Resp: 161212

Ion Ratio Lower Upper

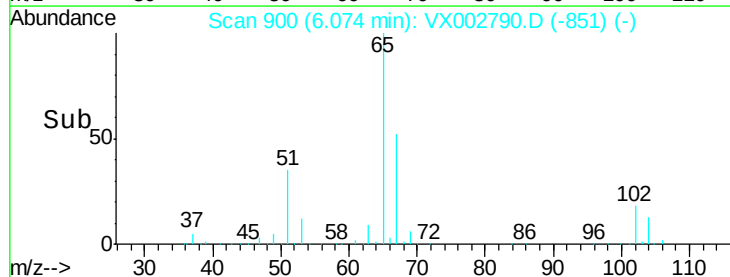
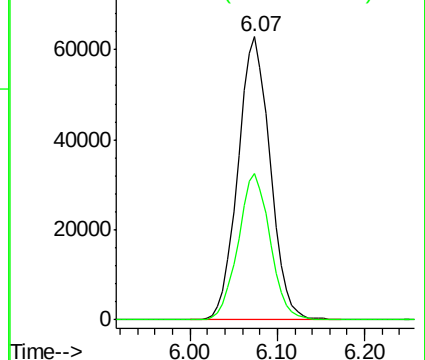
65 100

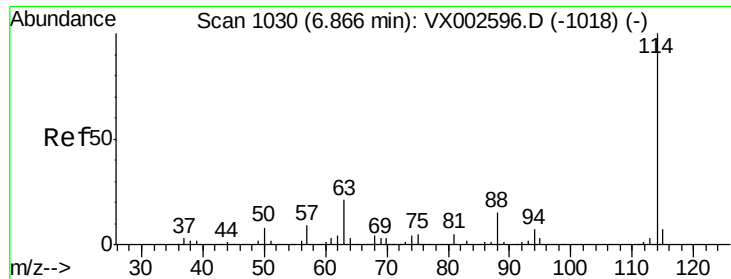
67 51.3 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

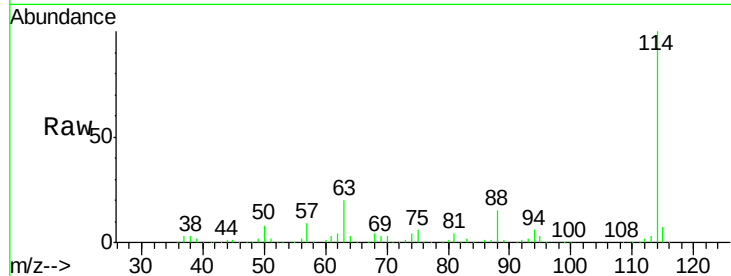




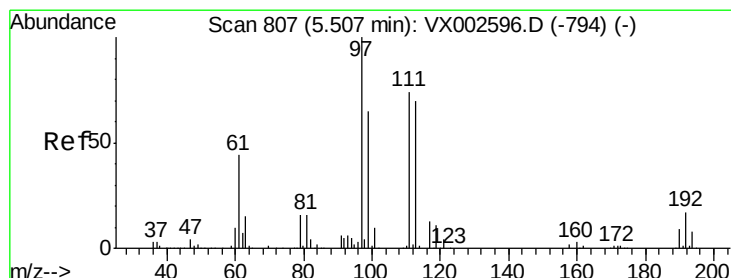
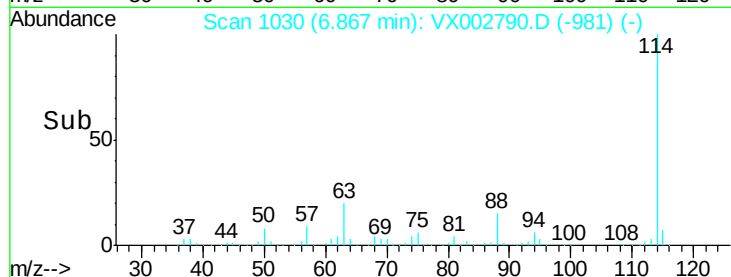
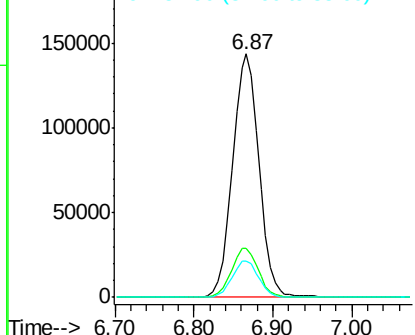
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002790.D
 Acq: 21 Jun 2018 16:03

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 333489
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.4
 88 14.9 0.0 30.0

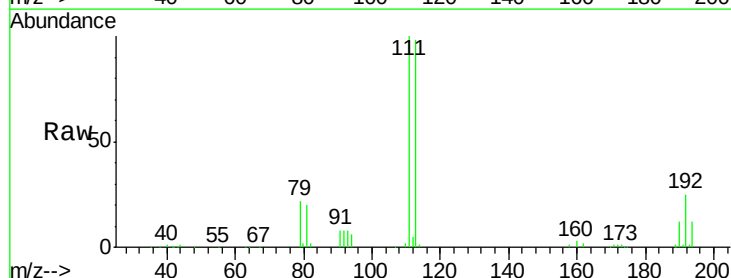


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

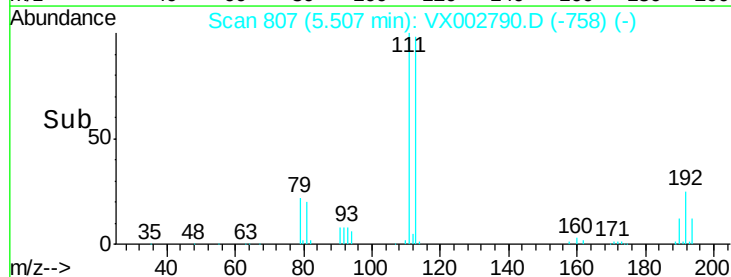
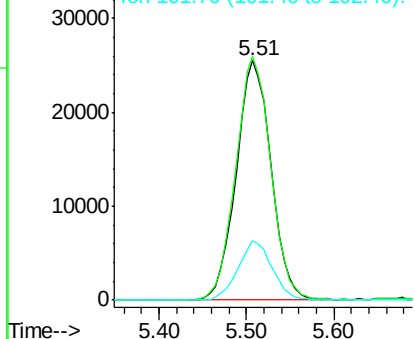


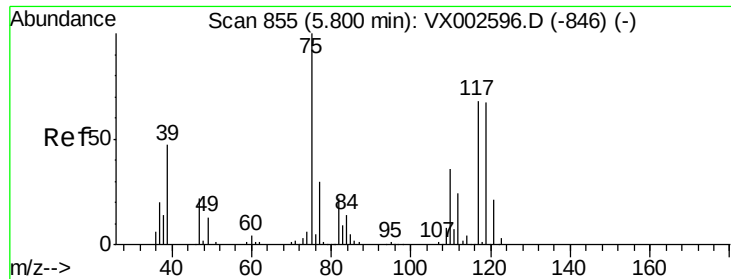
#35
 Dibromofluoromethane
 Concen: 26.55 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002790.D
 Acq: 21 Jun 2018 16:03

Tgt Ion:113 Resp: 70668
 Ion Ratio Lower Upper
 113 100
 111 102.4 81.4 122.0
 192 24.2 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

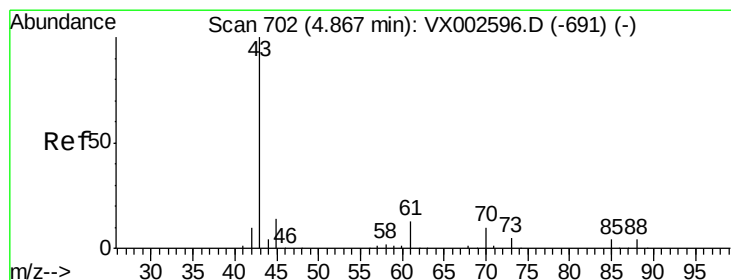
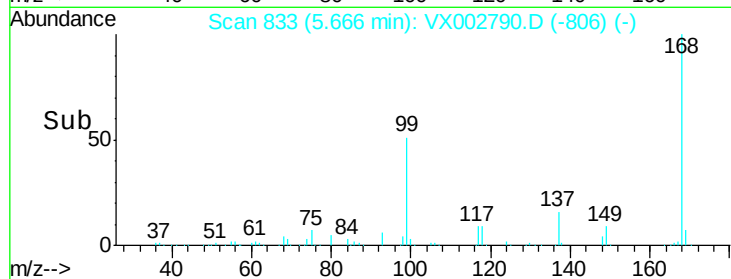
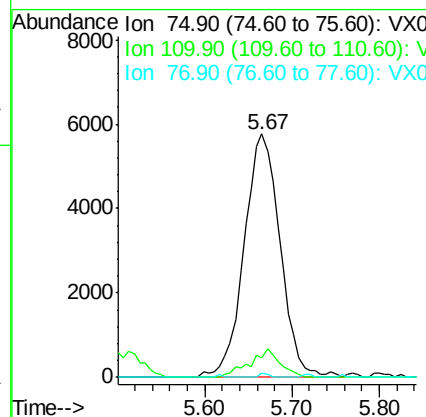
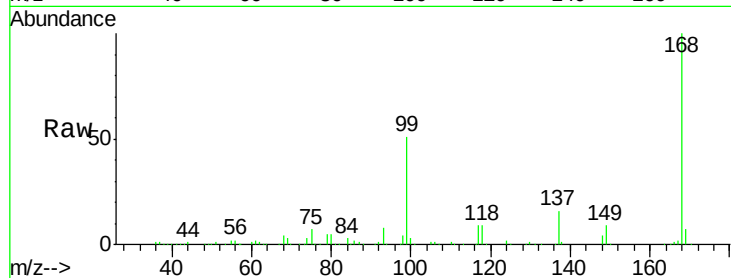




#36
 1,1-Dichloropropene
 Concen: 4.67 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002790.D
 Acq: 21 Jun 2018 16:03

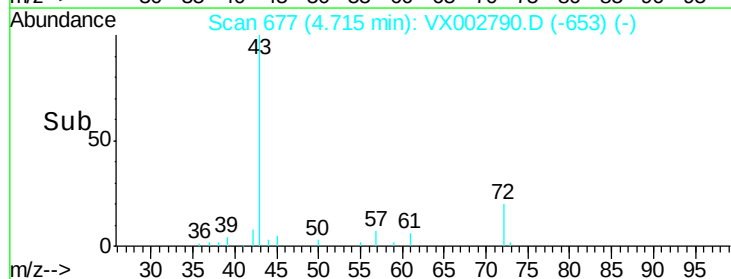
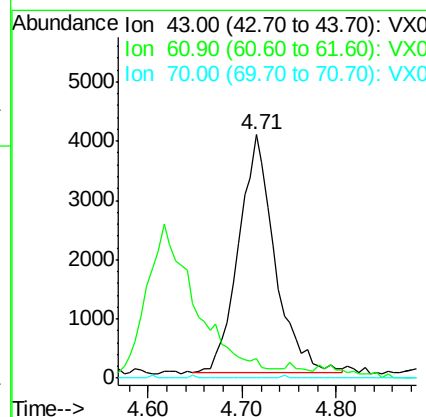
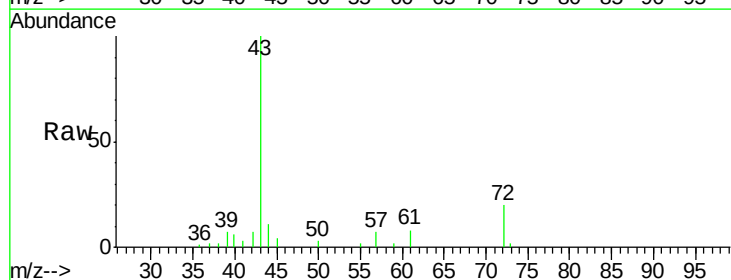
Instrument :
 MSVOA_X
 ClientSampleId :

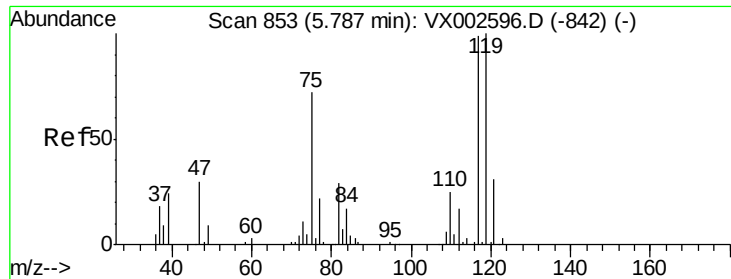
Tot Ion	75	Resp	16538
Ion Ratio	Lower	Upper	
75	100		
110	9.7	18.1	54.4#
77	0.4	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 2.67 ug/l
 RT: 4.71 min Scan# 677
 Delta R.T. -0.15 min
 Lab File: VX002790.D
 Acq: 21 Jun 2018 16:03

Tgt Ion	43	Resp	10694
Ion Ratio	Lower	Upper	
43	100		
61	0.0	10.4	15.6#
70	0.0	7.6	11.4#





#38

Carbon Tetrachloride

Concen: 6.07 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

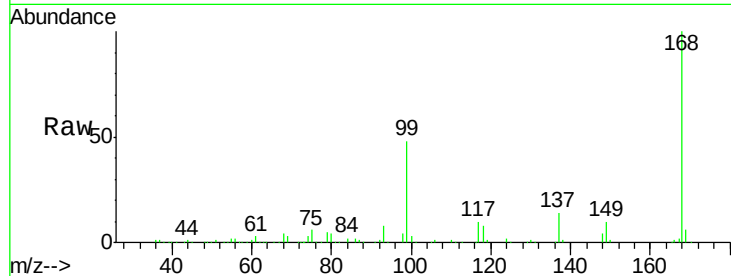
Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_X

ClientSampled :



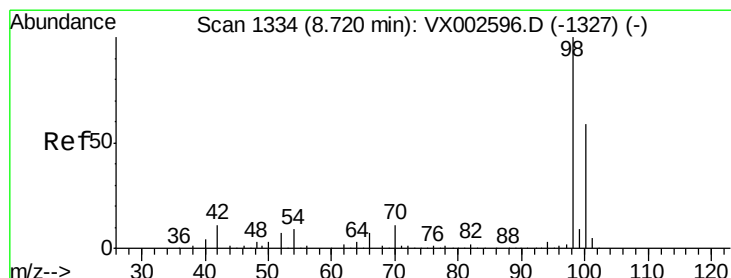
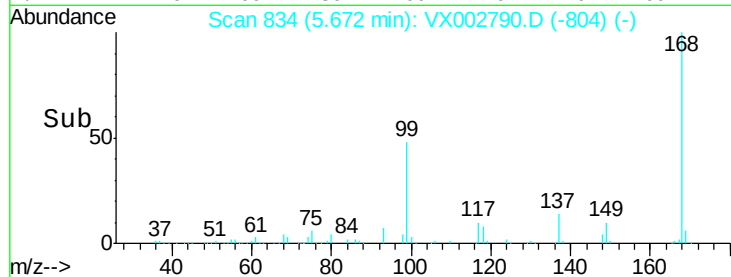
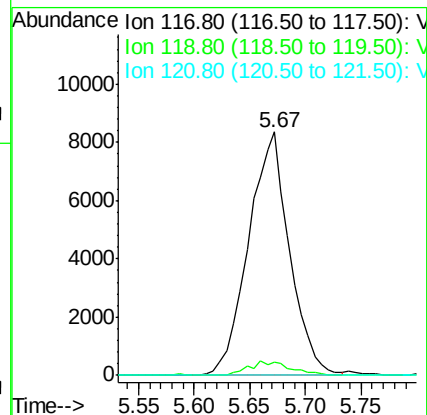
Tot Ion:117 Resp: 21397

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

121 0.0 24.4 36.6#



#50

Toluene-d8

Concen: 47.63 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002790.D

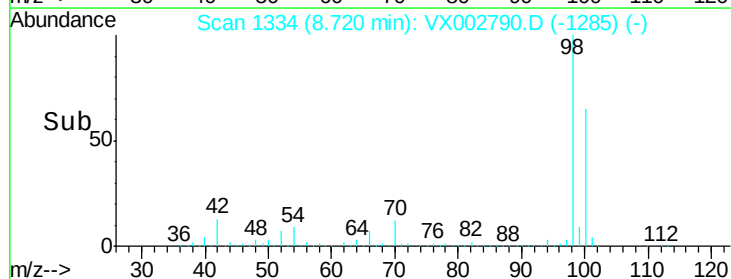
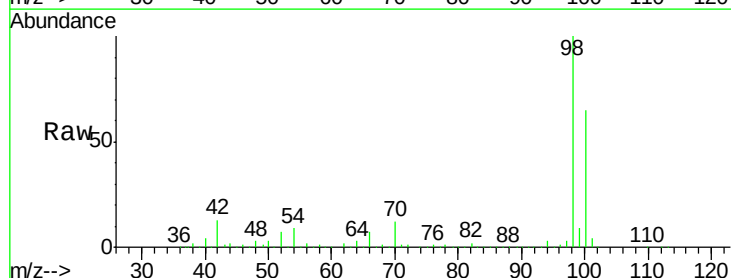
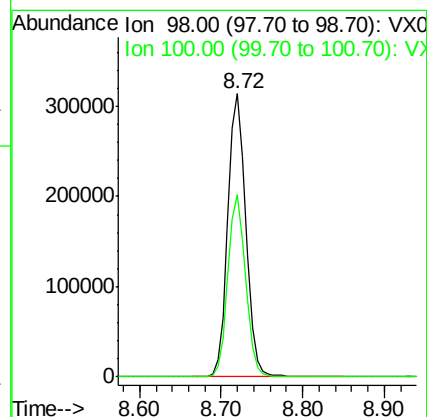
Acq: 21 Jun 2018 16:03

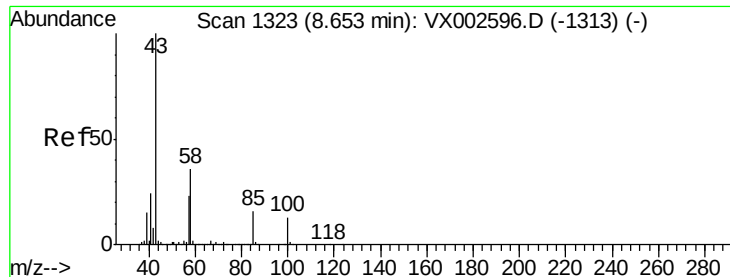
Tgt Ion: 98 Resp: 481364

Ion Ratio Lower Upper

98 100

100 63.2 50.9 76.3

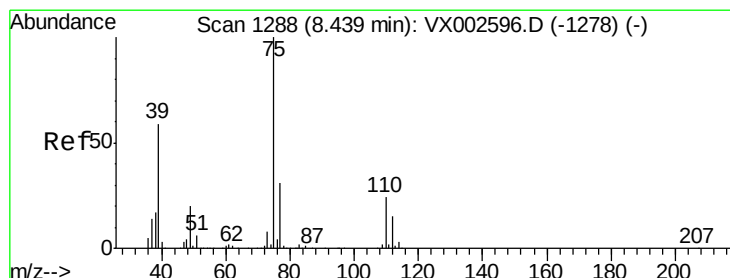
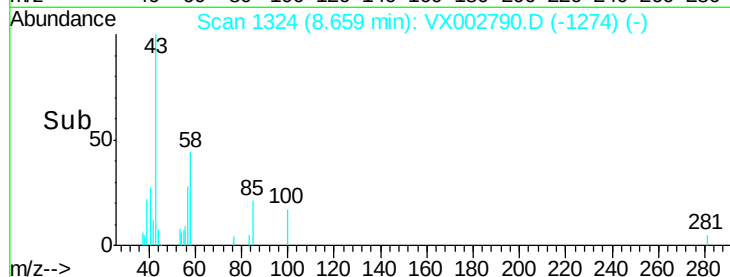
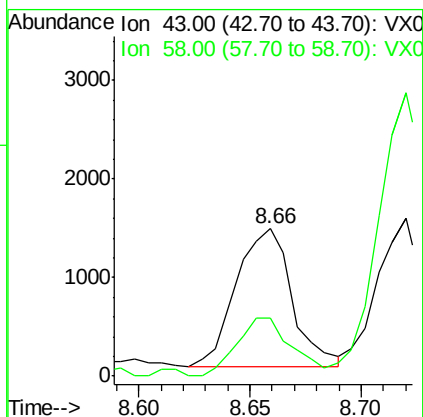
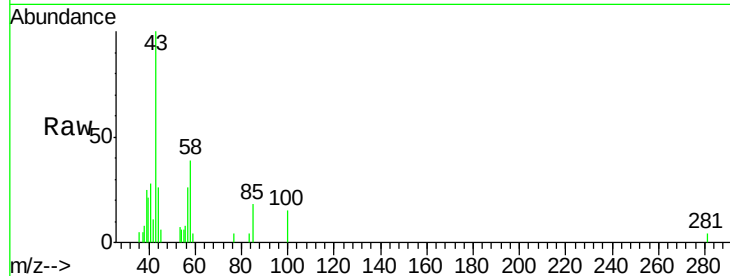




#51
4-Methyl-2-Pentanone
Concen: 0.58 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

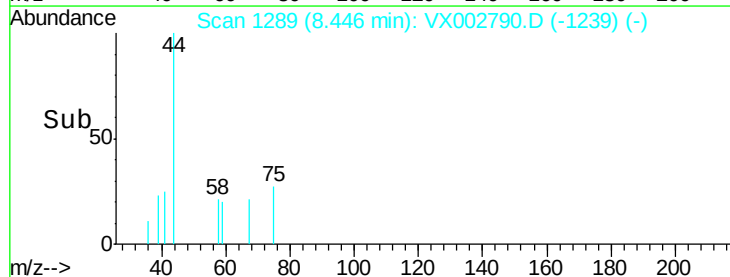
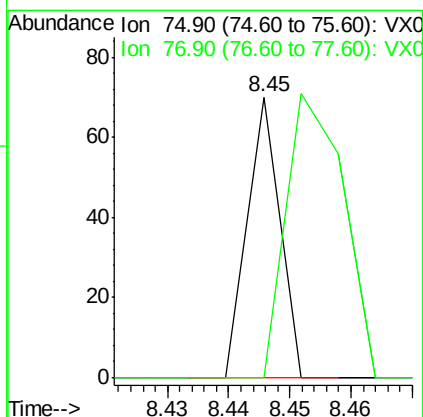
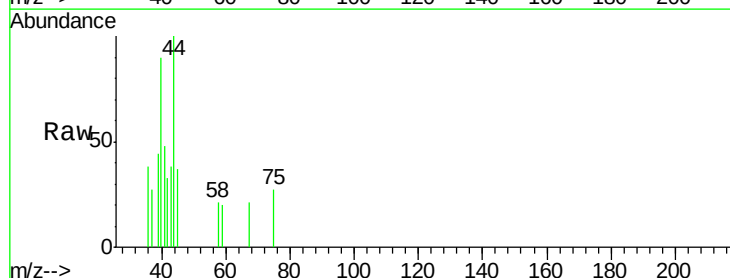
Instrument :
MSVOA_X
ClientSampled :

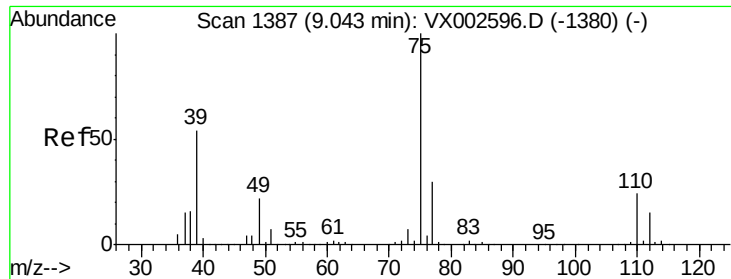
Tot Ion: 43 Resp: 2484
Ion Ratio Lower Upper
43 100
58 40.9 28.6 42.8



#53
t-1,3-Dichloropropene
Concen: 2.40 ug/l
RT: 8.45 min Scan# 1289
Delta R.T. 0.01 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

Tgt Ion: 75 Resp: 26
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



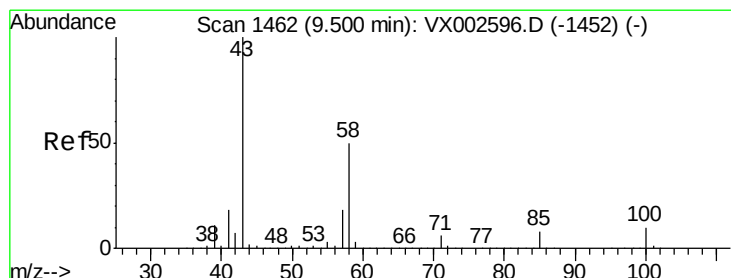
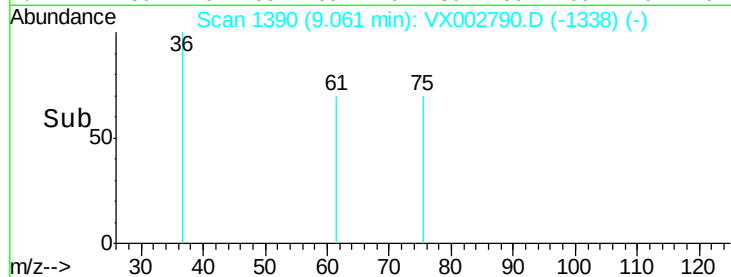
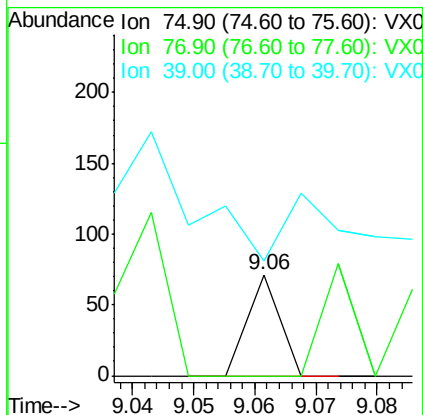
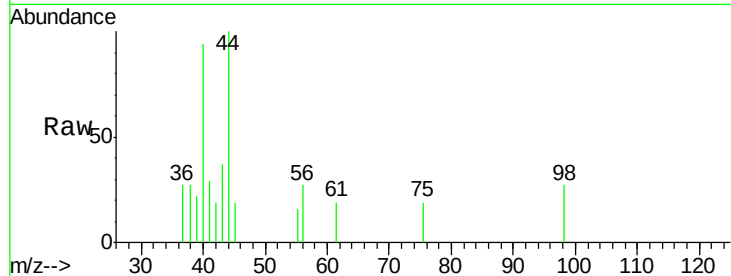


#54

cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 9.06 min Scan# 1390
Delta R.T. 0.02 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

Instrument :
MSVOA_X
ClientSampled :

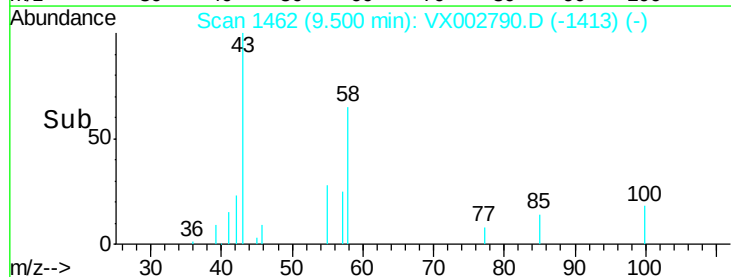
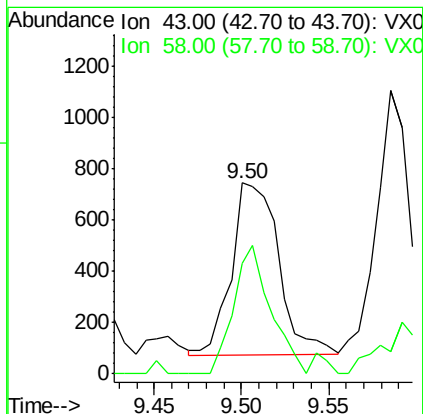
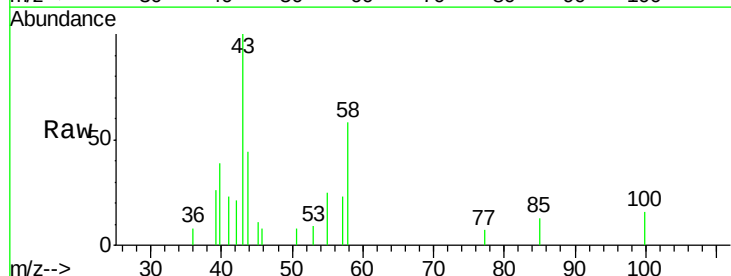
Tot Ion: 75 Resp: 26
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 0.0 42.4 63.6#

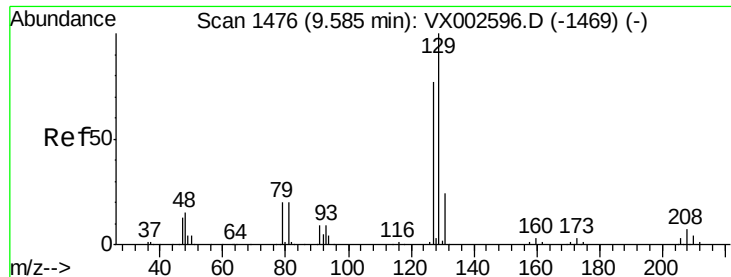


#59

2-Hexanone
Concen: 0.39 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

Tgt Ion: 43 Resp: 1262
Ion Ratio Lower Upper
43 100
58 58.7 24.6 73.6





#60

Dibromochloromethane

Concen: 3.77 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.09 min

Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_X

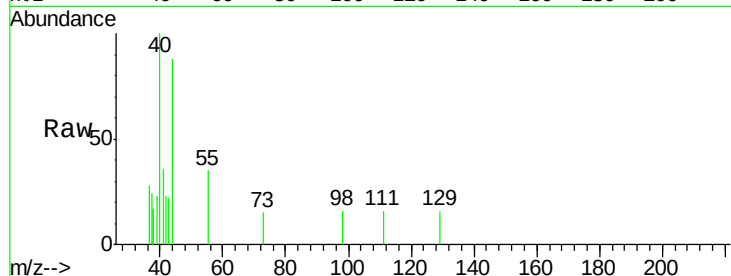
ClientSampleId :

Tot Ion:129 Resp: 19

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.68

60

50

40

30

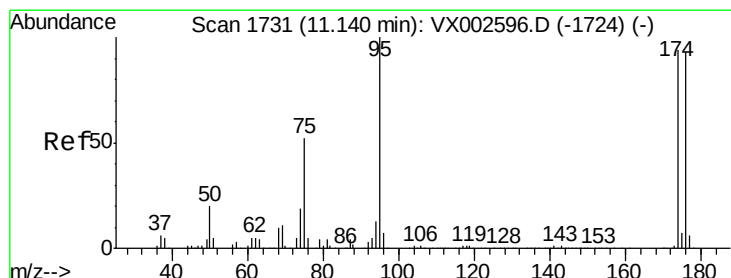
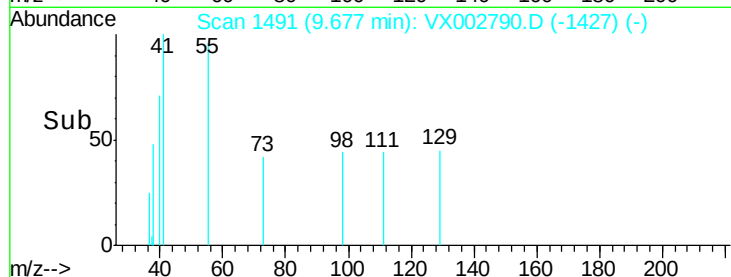
20

10

0

9.66 9.67 9.68 9.69

Time-->



#62

4-Bromofluorobenzene

Concen: 43.19 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

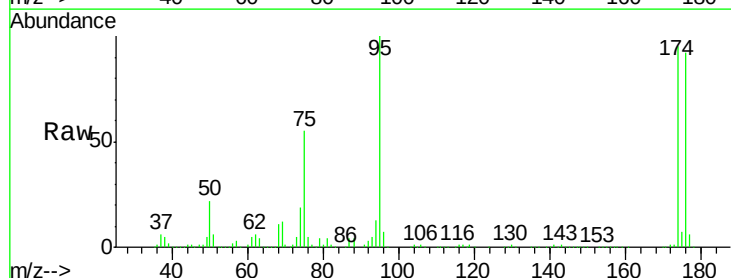
Tgt Ion: 95 Resp: 165406

Ion Ratio Lower Upper

95 100

174 97.6 0.0 187.4

176 94.6 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

150000

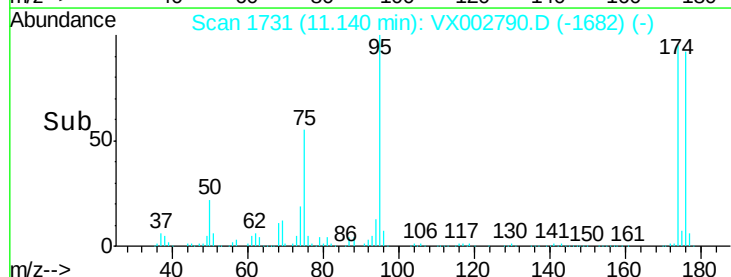
100000

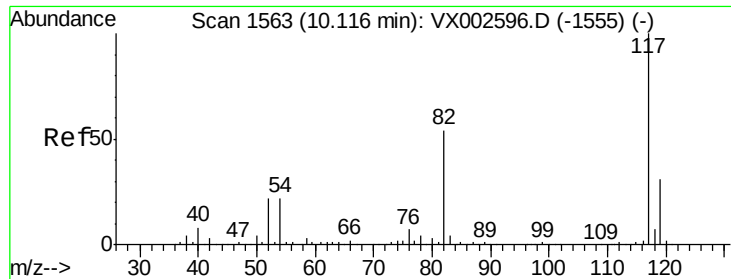
50000

0

11.10 11.14 11.20

Time-->

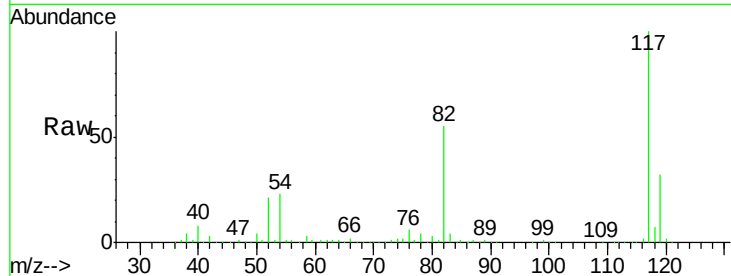




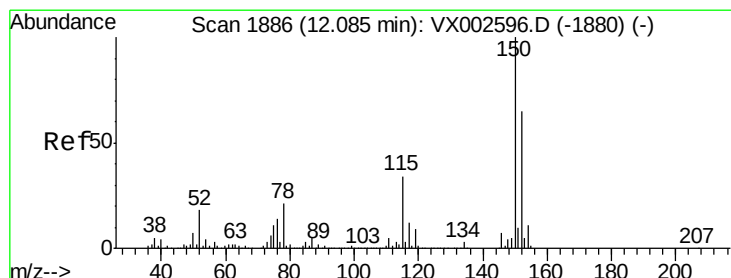
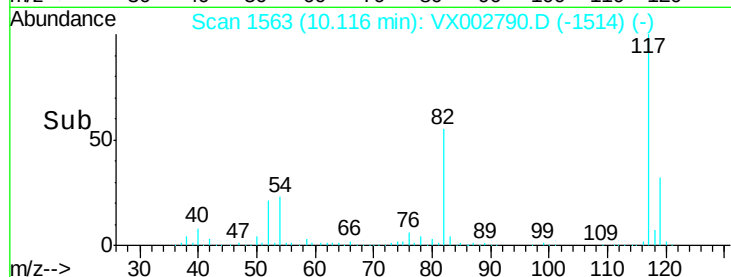
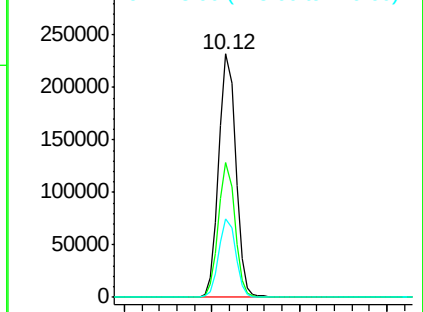
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 313201
Ion Ratio Lower Upper
117 100
82 55.4 45.0 67.4
119 32.3 25.8 38.6

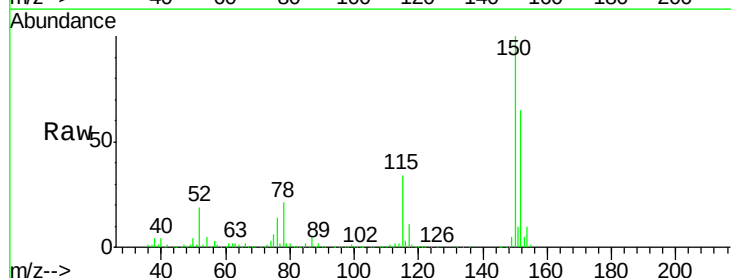


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

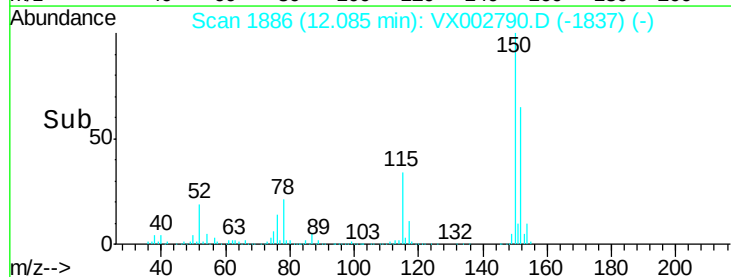
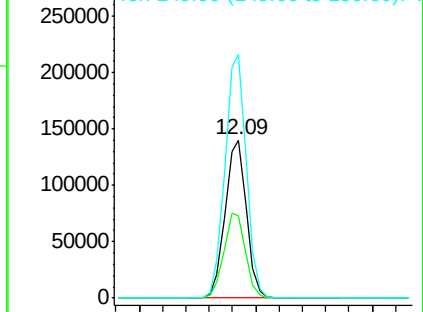


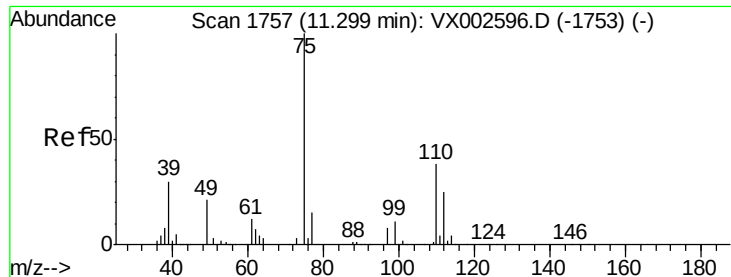
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002790.D
Acq: 21 Jun 2018 16:03

Tgt Ion:152 Resp: 175992
Ion Ratio Lower Upper
152 100
115 54.4 40.1 120.2
150 155.2 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V

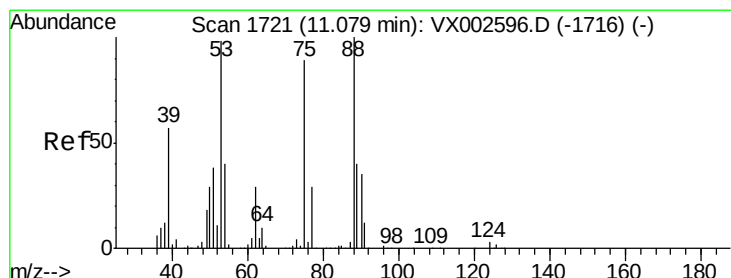
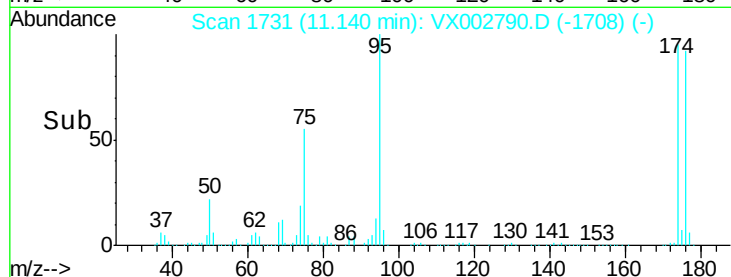
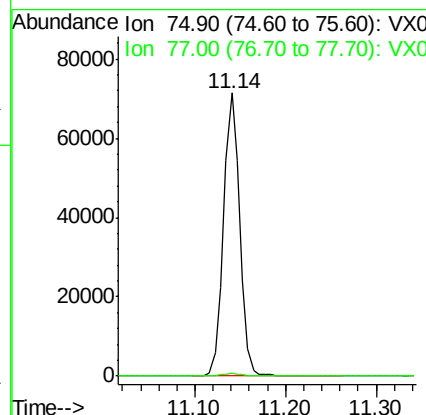
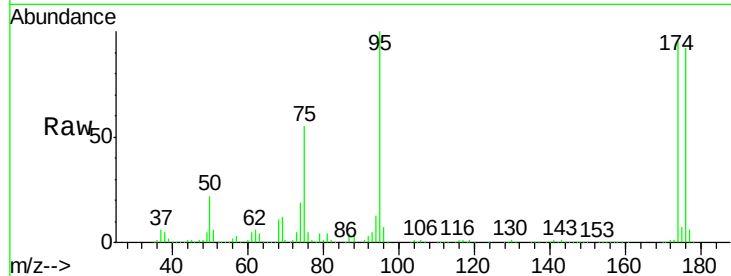




#76
 1,2,3-Trichloropropane
 Concen: 26.92 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002790.D
 Acq: 21 Jun 2018 16:03

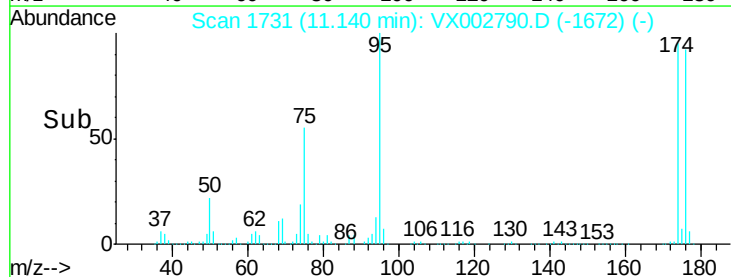
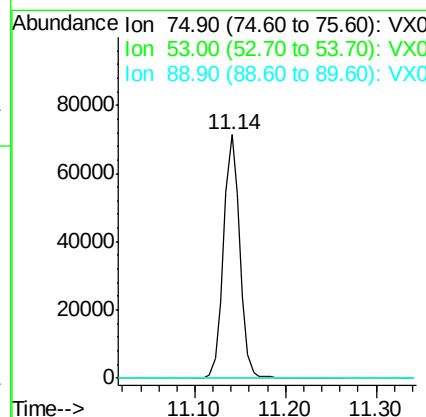
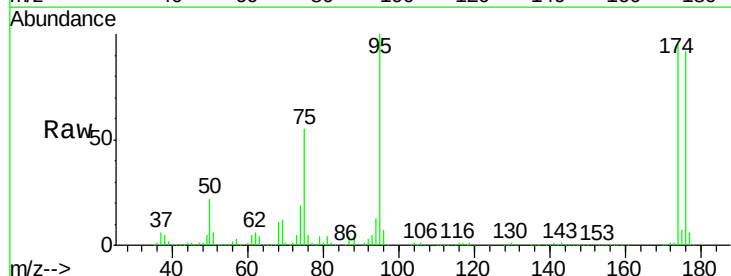
Instrument :
 MSVOA_X
 ClientSampleId :

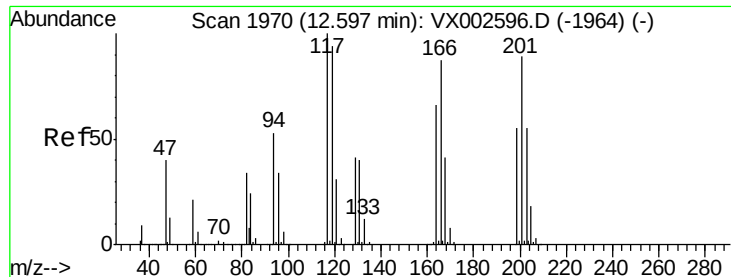
Tot Ion: 75 Resp: 89404
 Ion Ratio Lower Upper
 75 100
 77 1.2 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.12 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002790.D
 Acq: 21 Jun 2018 16:03

Tgt Ion: 75 Resp: 89404
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.58 min Scan# 1967

Delta R.T. -0.02 min

Lab File: VX002790.D

Acq: 21 Jun 2018 16:03

Instrument :

MSVOA_X

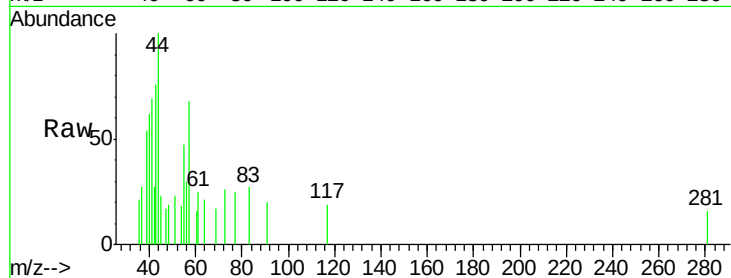
ClientSampleId :

Tot Ion:117 Resp: 22

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

